

MINUTES OF THE MILWAUKEE AMATEURS RADIO CLUB

August 30th, 1923.

Secretary not present.

September 20th, 1923.

Secretary not present.

Mr. Baird acting as secretary on the evening of the 20th, reports the following--

Meeting was called to order by vice-president Howell. The treasurer reported money coming in steadily.

Mr. Howell of the technical committee gave a talk on the Austin circuit and gave a method of measuring antenna inductance.

Two out of town visitors were present, -X9ACP and 9CVO.

Mr. M. H. Doll was proposed and voted into the club as a member.

The rest of the evening was taken up by reports on proceedings at the Chicago convention by delegates from the Milwaukee club.

Board of Direction meeting was held after the regular meeting and a discussion was held on membership campaign and the new officers to be elected for the coming fiscal year.

The position of City Traffic Manager was also considered. Nothing definite was arrived at and Mr. Crapo advised that the matter be held over until after the election of the new board of direction.

ED HOWELL - W9CVI
PRES.

1923-1924

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1923-1924

MINUTES OF THE MILWAUKEE AMATEURS RADIO CLUB

September 27th, 1923.

Meeting was called to order by vice-president Howell and the roll was called by the secretary. This feature of calling the roll is to be observed each meeting in the future.

The secretary proposed the following two names for membership in the club

C. F. Quentin

H. J. Parish

Vote was taken and both became regular members of the club.

Mr. Baird gave a resume of the B. D. meeting which took place after the last regular meeting.

The City Manager was called upon and gave a talk to the members on the activities of the transmitting stations during the coming year.

The Treasurer made his report and stated that the cash balance on hand amounted to \$41.50.

The President, Mr. Wareing, was seen in the room and Mr. Howell called upon him to take the chair.

The President had the following names placed on the blackboard and announced that nominations were open in addition to those presented for directors on the new board of direction,-

C. N. Crapo

M. F. Szukalski

M. H. Doll

D. W. Gellerup

E. A. Cary

E. T. Howell

F. W. Catel

F. Metcalf

I. Strassman

The last two names were added by nomination by the members.

Vote was taken and the first seven were chosen as directors for the coming year.

The new Board of Direction adjourned to the back of the room and proceeded to elect officers to carry out their will during the coming year. The following were chosen,-

E. T. Howell President

M. F. Szukalski, Jr. Vice-President

C. S. Polacheck Secretary

E. W. Ruppenthal Treasurer

L. S. Baird Business Manager

F. Catel Assistant Treasurer

The various committees appointed were as follows,-

Legal Chairman L. J. Topolinski

Publications and papers	"	H. G. Fawcett
		J. A. Rose

Technical " D. W. Gellerup
 I. Strassman
 H. G. Fawcett
 E. T. Howell
 R. E. Lathrop
 M. H. Doll

MINUTES OF THE MILWAUKEE AMATEURS RADIO CLUB

September 27th, 1923.

Membership Committee	Chairman	F. W. Catel F. Meyer. A. J. Simandl
Program	"	E. T. Howell
Publicity	"	L. S. Baird
Traffic Department	"	C. N. Crapo I. H. Strassman M. H. Doll

The new Secretary was asked to send out notices to transmitting (and official A. R. R. L.) stations to come to our club meetings and join the club so that rules and regulations could be formulated to handle traffic to the greatest advantage.
Meeting adjourned.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

October 4th, 1923.

The meeting was called to order by President Howell. The minutes of the last meeting were read by the Secretary.

Mr. Fawcett, Chairman of the Papers and Publications Committee reported on an interesting article in the radio section of the New York Sun-Globe describing a short wave receiver. He also read extracts of an article in the Radio Age regarding recommendations by the Department of Commerce for a broader band of wave lengths for amateur transmission, a new class of amateur license to be known as "Extra Amateur First Grade", and new restrictions for amateur transmission. He reported on another article in this journal dealing with the laudable war-time record of the radio amateur.

The Secretary proposed the names of Chas. J. Sheblak and Fred Schaefer for regular membership and George A. Coates and Carl Hilbert for junior membership. The members voted to admit all four of these candidates to the club. The Secretary also explained that he was passing out blanks to be filled in by the members in order to bring the records up to the minute. He urged that every member turn in a filled in blank.

The Treasurer reported \$53.45 now in the treasury and corrected the last report to read \$42.20.

President Howell, Chairman of the Program Committee, introduced Mr. H. S. Olson of the Fansteel Products Co. who gave a very interesting talk about a new chemical rectifier. He first explained the failings of other means of supplying High Voltage D.C. to the plates, and then gave a thorough explanation of the new Lead-Tantalum rectifier, illustrating his talk with lantern slides. He also gave some good data on the construction of filters. Dr. Engel of the same Company then gave us a few words about the commercial aspects of the new rectifier.

The Program Committee reported a discussion by the Technical Committee of various types of rectifiers for next meeting.

Mr. Doll of the Technical Committee reported on a new receiving circuit for use on wave lengths of from 100 to 600 meters making it valuable for amateur and broadcast work.

Chairman Catel of the Membership committee reported four new members. He also explained that each chair in the room had received an application blank before the meeting, and asked that the visitors fill them out, and the members pass them out to friends. He suggested that each member appoint himself a committee of one to bring in one new member.

Mr. Meyer announced that he was in a position to design and construct transformers for all needs of the members at reasonable prices.

The meeting adjourned to give place to a meeting of the membership committee, which has added to its number, F. Metcalf, C. F. Quentin, L. G. Frahl, and E. G. Nickel.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

October 11th, 1923.

The meeting was called to order by President Howell, and the minutes of the previous meeting were read by the Secretary. The Secretary reported applications for regular membership from Aldrich C. Kroner, and Elmer E. Burghardt; for associate membership from William A. Jaap and Harry A. Gathmann, and for junior membership from Gilbert C. Klestermann. A vote was taken, and these five men were admitted to the club in the respective grades of membership above.

The Treasurer, Mr. Ruppenthal, reported \$57.70 in the treasury.

Mr. Baird read a letter from A.R.R.L. Headquarters addressed to the affiliated clubs regarding strict conformance with the law as to wave length. Mr. Howell supplemented this with a log of the wavelengths of a number of club stations on a certain night, showing that over half of the stations reported were above the allotted 200 meters.

The membership committee reported thru Chairman Catel that letters had been sent to all local league members, not members of the club, inviting them to attend meetings and join. He also announced that the membership list had been pruned of men whose dues were far in arrears.

Mr. Crapo of the Traffic Committee, offered the services of that committee in helping members tune their sets more accurately. He also requested that in the absence of a city manager, traffic reports be sent directly to him.

The Program committee reported that at the next meeting a speaker from the Jewell Instrument Co. would be present to give a talk and demonstrations on the measuring of tube characteristics. It was also reported that M.B. West of the Zenith Co. would probably be with us two weeks from next meeting.

In the absence of Mr. Gellerup who was scheduled to speak, Mr. Howell gave a very interesting talk on C.W. Transmitters, describing the Hartley, Weissner, and Colpits circuits, and discussing their merits and faults. He also mentioned the general details of a new method of determining antenna resistance, and also the method of finding the natural period of an antenna. Slips were passed out to the members so that they might list apparatus that they would like to sell, in an-

ticipation of an Apparatus Auction which may be a feature of some future meeting's program.

The meeting then adjourned.

MINUTES OF BOARD OF DIRECTORS MEETING- Oct.11,1923.

The meeting was called to order by Pres. Howell. Those present were Messrs. Baird, Cary, Catel, Crapo, Howell, Topolinski, Szukalski, and Polacheck.

A sum, not to exceed \$25.00 was appropriated for stationery. Mr. Crapo reported that Strassman's resignation as City Manager was not yet received, but that the matter will be taken care of in accordance with the decision of the last traffic meeting, as soon as it is received. There will be no traffic meeting until a new city manager is in office, was the decision of the board. The absence of Mr. Gellerup was commented upon, and the matter of a Vice Director was taken up. Forrest Metcalf was recommended for the position, to be empowered to take the place of any director absent from any meeting. Mr. Catel inquired as to how long a member should be kept on the list when he was not in good standing, and he was referred to the Bylaws which provide expulsion at the end of three months, at the discretion of the Treasurer. It was suggested that a code class be started by the club. Wire was donated, and the technical committee instructed to rig up a buzzer outfit for connecting phones onto. Mr. Baird brought up an inquiry on the part of a representative of Jasco. in regard to the club's sponsoring the broadcasting of a code class. Mr. Baird was delegated to speak to WHAD in this regard. Upon the motion of the Secretary, Mr. Baird was unanimously elected to Honorary Membership in the club. It was moved that Mr. Lathrop be requested by the secretary to apply for regular membership in the club, it being understood that the Treasurer would not collect dues from him. It was decided to drop the charter members of the MARC. and the most of the Honorary members, retaining and Honorary Members of the MRACinc. only the following: Messrs. Baird, Pelishek, Polacheck, and Teschan, and the Science Room of the M.P.L. Mr. Catel Moved that an ARRL pin be given any member bringing in ten members during a club season. This was changed to five, and passed. The matter of a social was brought up and referred to the members. The Club picture will be taken as usual. It was decided that the meetings be opened for discussion by the chair.

The Meeting adjourned at 11:30.

MINUTES OF THE MILWAUKEE AMATEURS' RADIO CLUB INC.

October 18, 1923.

The meeting was called to order by President Howell. The minutes of the previous meeting were then read by the Secretary, who reported two applications for membership. Herbert Baker was voted into the club as a junior member. The application for regular membership from Robert E. Lathrop, which was submitted at the request of the Board of Directors since the class of membership in which he had been placed has been discontinued, also received an unanimous vote. The Treasurer reported a cash balance of \$65.45, showing a steady increase in the club's funds.

Business Manager Baird reported that he had been approached by the local radio dealers association in regard to carrying on a code class thru some broadcasting station, and trying to minimize interference from ship stations on the lake. He reported that he was investigating these matters further. He also called to the attention of the members the issue of a new government call book and its merits, and circulated a list about the room to allow those who wished to subscribe to this and to the Radio Communication Laws of the U.S. to do so thru the Treasurer. He also mentioned the Radio Service Bulletin published by the government.

Chas. Catel of the membership comm. reported that the Board of Directors had decided to give an A.R.R.L. pin to any member bringing in five new members during a club season. Mr. Lathrop of the Technical Comm. reported that he had prepared a number of important papers to be given at future meetings. Pres. Howell reported that the Program Comm. was arranging to have M.E. West speak in two weeks, and Prof. Terry of the U. of W. at some future date. He then introduced the speaker of the evening, Mr. J.B. Miller of the Jewell Electrical Instrument Co.

Mr. Miller gave a remarkable demonstration of the measuring of vacuum tube characteristics. He explained, very lucidly the principle that made a tube a good amplifier, or a good detector. Then he made curves of a large number of tubes belonging to the members, and summed up the results, which showed that the present manufacturers of tubes turned out a few exceptionally good tubes, a number of fair ones, and quite a large number of poor and almost useless tubes. Mr. Miller

then spoke briefly of some new ideas in tube construction, and of the testing set and amateur wavemeter put out by his company. The large number of questions that were showered at and answered by the speaker showed better than anything, the interest and appreciation of the club members of so fine an opportunity to increase their knowledge.

The meeting then adjourned.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

October 25, 1923.

The meeting was called to order by Pres. Howell. The roll was called and minutes were read. Bus. Mgr. Baird reported that he was giving publicity to the fact that ship stations were responsible for much of the GRM to BCL's. He also reported that the Radio Inspector declared in a letter that it was impossible for him to do anything to help in this matter. He reported that Messrs. Meyer and Catel were logging ship stations during BC hours to see if private conversations were carried on. The Club voted unanimously in favoring the action of the Bd. of Directors and Baird in this matter.

The Secretary reported applications for regular membership from Ben Chromy and Frank J. Warth, and for associate membership from J.N. Newland and H. Brandt. All received unanimous votes of admission. The Secy. also read a letter from the Circulation Mgr. of CST in regard to the club's bylaw requiring membership in the ARRL.

The Treasurer reported \$75.25 in the treasury.

Mr. Catel read extracts from an article in Radio News regarding traffic handling. Mr. Crapo read a letter from R.H.G. Matthews in regard to the duties of the City Mgr. The President announced that a delegation of men from Racine were in our midst, and the eight hams responded by rising. Pres. Howell reported a log of wavelengths which showed that 35% of the stations were still over 200 meters but indicated an improvement from the 50% reported at a previous meeting.

Mr. Stanley Fisher, City Manager of Racine, when called upon for a few words, offered the co-operation of the Racine amateurs in bettering ARRL traffic handling.

Mr. Lathrop gave a very interesting and practical talk on the efficiency and operating character of a number of types of battery chargers. This was followed by a lively discussion.

Mr. Catel answered a call for volunteers to demonstrate the correct form for sending a message.

Mr. Crapo read a letter from ARRL Hdqs. regarding transatlantics. A Racine amateur offered a solution to GRM in

suggesting that the antenna switch be left open for local work between spark stations. 9ACC reported that the Racine Amateurs were organizing a local radio club which was to meet on the second and last Wednesday evenings of the month.

The meeting adjourned.

BOARD OF DIRECTORS MEETING.

Those present were Powell, Catel, Crapo, Doll, Metcalf, Cary, and Szukalski, in addition to Bus. mgr. Baird, and the Secy., and quite a number of visitors, including the eight men from Racine.

The meeting was called to order by Pres. Powell, and the fact of Mr. Gellerup's failure to carry out his duties as Director and Chrm. of the Tech. Comm. was brought up. Mr. Doll was elected to supplant him as Chairman of the Technical Committee, and the Secy. was instructed to inform Mr. Gellerup of this fact and to ask him if he would be able to actively retain his membership on the board. Crapo reported that he has recommended Szukalski for new City manager. Powell reported that the code class apparatus was being constructed and would be ready for next meeting. Howell, Parish, Catel and Metcalf volunteered to help log CPM from ships. The matter of the club social was brought up, and it was decided to refer it to the members. The request to change the meeting night to Friday was brought up, and unanimously voted down. The meeting was then opened for discussion, and a real banfest ensued, until lateness of the hour made it necessary to adjourn.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

November 8, 1923.

The meeting was called to order by Pres. Powell, after the newly organized code class had held its first session of about an hour, under the leadership of Mr. Catel. The attendance turned out of twenty two men was gratifying. Mr. Crapo criticized the Secy's reading of the minutes of the board of directors meeting which followed the reading the minutes of the previous meeting. It was agreed that the Secy. would in the future read only the important points of the board's activity and omit all unnecessary or unpleasant details.

Business Mr. Baird reported that a letter to the Radio Corp. regarding interference to RCL's was being held up to give the traffic committee time to log this interference. He reported that a delegation of club members went down to the last meeting of the Pacific amateurs' organization, and found a live group who welcomed and adopted a number of suggestions.

Mr. Rose of the Publicity Committee reported on the use of a local oscillator in radio frequency circuits to offset losses due to lack of regeneration. Mr. Powell reported his log of wavelengths of local amateurs which showed that only 20% of those heard were over 299 meters.

The Secretary reported applications for associate membership from Lorin Kay and Burgess Pesch, regular from C.F. Griesbacker, and junior from Henry Voegel. All received votes of admission.

Mr. Lathrop of the Technical Committee reported that in experiments he had been able to get an efficiency of 35% from a Tungar rectifier.

The Treasurer reported a cash balance of \$23.00.

The program for the evening consisted of a spelldown to test the proficiency of the members in defining radio terms. Messrs. Powell and Lathrop acted as judges, and after a quick elimination contest and a hotly contested duel, it was decided to declare a draw, and Messrs. Coll and Griesbacker were each awarded an A.R.F.L. pin. The meeting then adjourned.

BOARD OF DIRECTORS MEETING.

In a very short meeting, the board of directors passed the motion proposed by the Secy, making the Radio Editor, The Milwaukee Journal an honorary member. It was also decided to instruct the Treas. to secure ten A.R.F.L. pins to carry on hand for awards and for sale.

MINUTES OF THE MILWAUKEE AMATEURS' RADIO CLUB, INC.

November ~~18~~²⁸, 1923.

The meeting was called to order by Pres. Howell, and after the roll call, the minutes of the previous meeting were read. Mr. Baird reported a controversy with the Department of Justice officials here, and stated that he believed they had power and inclination to shut up all amateur spark stations. He asked all members operating on spark to voluntarily change to C.W. before the officials decided to use their influence against all amateurs.

Mr. Doll of the Traffic Committee asked that the Official Relay Stations and others handling traffic get their reports in more promptly. The Treasurer reported \$25.95 in the treasury. The Secretary reported applications for regular membership from H.E. Keller and Cliver E. Zander, for associate membership from Albert Radtke, and for junior from John Hinton and John J. Skorch. All received votes of admission. The Secretary also gave out a number of the new membership certificates, and placed on display samples of the new stationery, cards, and certificates.

Mr. Howell gave his weekly log of amateur wavelengths which showed that 40% were over 200 meters, a considerable increase. Mr. Doll of the Technical Committee gave an interesting paper on recent work into the determination of the causes of "fading". This he showed, indicates that fading is due to changes in the Heaviside layer which reflects waves. He very lucidly explained the details of the theory, and gave a bibliography of periodical information of the subject.

The Program Committee reported that arrangements were under way for the annual social which would be in the form of a dinner on December 15th at the Maryland Hotel.

Mr. Szpakalski gave an interesting description of his remotely controlled station, and gave practical data for the construction of remote controls.

A dispute regarding transformers, power factors, and efficiencies ensued after two visitors from West Bend started the ball rolling in their requested remarks.

The meeting which numbered 69 persons then adjourned.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' RADIO CLUB, INC.

November 15, 1923.

The meeting was called to order by President Howell. After the reading of the minutes, Business Manager Baird made a report in which he told of a visit to the South Side Radio Club, and found it to be still a younger group. He also reported on an interview with an operator on a ship regarding interference to broadcast listeners. He said the operator admitted that his set probably did interfere, but that it was beyond his control to remedy this, and he merely carried out his duty. Chas. Catel of the membership committee reported that the membership drive was progressing very well, and announced that Mr. Mickel of his committee was the second to be awarded an A.R.R.L. pin for securing five new members. Mr. Howell reported that he had made no regular log of wavelengths during the week, but that the amateur transmitters were getting down where they belong.

Treasurer Ruppenthal reported a cash balance of \$25.60.

The Secretary reported applications for Associate membership from John A. Toernessen and for Junior membership from Wm. J. Kennedy. Both men were admitted to the respective grades of membership. The Secretary read an official communication to all affiliated clubs from A.R.R.L. Headquarters regarding Trans Atlantics, Quiet Hours, and change in interval between called and calling stations call letters.

The program committee reported thru Pres. Howell that arrangements for the club dinner to be held December 10th at the Hotel Maryland were progressing rapidly.

The Rev. John R. Kremer, S.J. M.A. who was the main speaker of the evening gave a very interesting and instructive talk on magnetism, explaining the fundamental principles, and applications, and telling of some of his own original experiments in certain phases of the subject.

The meeting adjourned after a short discussion. 72

MINUTES OF THE MILWAUKEE RADIO AMATEURS' RADIO CLUB, INC.
November 22, 1923.

The meeting was called to order, and after the minutes were read, Business Mr. Peist reported that his work was progressing as usual, but nothing of special interest had come up. Chas. Cotel of the Membership Committee assured the meeting that the members were coming in steadily, and announced that anyone qualifying for the membership prize and had an A.F.B.L. pin would be awarded some other prize of equivalent value. Mr. Ross of the Publications Comm. read an article on a new detachable transmitting unit recently developed in France. Mr. Crace reported that the traffic department was functioning very well. He formally presented Mr. Marion F. Szukalski Jr. with his appointment as new City Manager of Milwaukee.

Mr. Coll of the Technical Committee reported that work on distributed capacity and Neutral Point Data was progressing and would be ready for presentation in the form of a report at a future meeting. Mr. Howell read his customary wave length log of amateur stations which showed that 25% of the amateurs were above 200 meters. As Chm. of the Program Committee, President Howell announced that tickets for the club dinner were now on sale.

The Secretary reported the receipt of resignations from G. Flesterman, J. Freuss, and A.J. Sinandl. He also proposed for regular membership Alfred C. Hennig and A. Gisenorann, *Carl Hatch* and for associate mem. Vern C. King. All were admitted. The Treasurer reported a balance of \$40.30.

The speaker of the evening, Mr. LeRoy C. L. Clausius, 3XA, Operating Engineer, Chicago Radio Laboratory, then held the attention of the meeting with his intensely interesting talk entitled "The Design and Construction of the Zenith Radiator Seven Hotel Broadcasting Station WJAZ". In this he gave considerable new and practical data on microphones, as well as a discussion of transmitting antennas, and the expression of the opinion that all modern transmitting methods were about equally good. Mr. Clausius's speech was certainly a treat, and drew 34 persons to the meeting. The Pres. then presented the membership prizes won so far, and appointed Geo. Miller to rig up a bulletin board for apparatus sales offers.

The meeting after going on record almost unanimously in favor of abolishing spark, adjourned.

MINUTES OF THE MILWAUKEE AMATEURS' RADIO CLUB, Inc.

November 29th, 1923.

No meeting because of legal holiday (Thanksgiving)

December 5, 1923.

The meeting was called to order by President Howell, and after the minutes were read by the Secretary, the Business Manager, Mr. L.S. Billegas-Baird read excerpts from a letter from ARRL Treasurer and Field Representative, Mr. Hebert. Mr. Hebert expressed his regret that he would be unable to be present at our annual dinner this year, and praised our club very highly as one of the finest in the country.

Mr. Crapo reported that in conjunction with State Mgr. Ben Ott, an ARRL State traffic meeting would be held under the auspices of the club on the afternoon of December 15th preceding our annual dinner.

M.P. Szukalski Jr. C.M. reported that he was contemplating writing to the RCA in regard to ship interference to BCLing for which the amateur is blamed. He read the duties of a City Manager, so as to inform the members just what matters were to be referred to him. He also asked that all spark interference be reported to him. Mr. Szukalski announced his intention of carrying out experiments to locate with a directional receiver, the source of the AC hum heard by most city amateurs and BCL's, and he asked for volunteers to assist in this work. He announced that every Saturday and Sunday evening at 7:30 and 10:30 the official ARRL broadcasts would be transmitted from Station 9AAP. Applicants for operatorship of station 9AAP were asked for.

President Howell stated that the ham stations were getting down to 200 meters pretty well now. He also expressed the opinion that Milwaukee as the metropolis and logical radio center of Wisconsin should have more official relay stations.

Mr. Catel of the membership reported that the members were flooding in, and announced that Mr. L.S.B-Baird had secured seven members, and therefore was entitled to an ARRL button. This was awarded him with due ceremony. The treasurer reported a cash balance of \$ 39.60 The Secretary acting as publications

--committee member, reported on a number of interesting articles and new features in the latest number of QST.

In his regular report, the Secretary proposed for membership the following:

Regular Membership- Clarence E. Berg, Clarence F. Bates, and George Levinson. Associate memb.- Sidney Neu, Cedris Heller, W.C. Kluge, and George Cummings, Junior Memb.- Stephen Boquar and Fred Blust.

All were voted into the club.

Pres. Howell reported as chrm. of the Program committee that he had made arrangements to have C.E. Hassel of the Chi. Radio Laboratory with us at the next meeting. He also reported arrangements for the club's annual dinner were progressing rapidly, and the ticket sales were gratifying. He read a letter from Dr. Barrett of the Museum, granting permission to use the trustees room for the state traffic meeting, but calling attention to the fact that excessive smoking during meetings was obnoxious, and if continued might provoke action from the Museum officials to have smoking stopped entirely during meetings.

The Tech. comm. reported that a speaker of its number would follow the address of C.E. Hassel at the next meeting. Mr. Doll was appointed chairman of the student comm. for the day.

Forest Metcalf of the Tech. Comm. then gave a very instructive report on the nodal point, its meaning, and its bearing on transmitting distances. Mr. Howell, as member of the Tech. Comm. gave a report on the distributed capacity of inductances. He gave a summary of the nature and effects of this factor in radio circuits, and then gave methods of measurement and results of measurement of the dist. cap. of a number of coils. He also told of experiments in which he checked up the capacity of a number of Dubelier Micadons and found them to be greatly at variance with the listed capacity.

BOARD OF DIRECTORS.

Doll and Gellerup were absent. Metcalf was present.

The matter of smoking during meetings was brought up, and it was decided that the letter was probably the result of the janitor's trying to take revenge on the club for its upheld right to stay till 10:00 P.M., but it was decided that Mr. Barrett should be sent a letter assuring him of our ec-

operation. Mr. Baird reported tha Gellerup would send in his resign. as B.D. and it was decided that Metcalf be made Director in his place, while Nickle was suggested as Vice Director. Schaeffer was also suggested as Vice Director, and he was placed on the Membership committee. Rose was made Chrm. of the Pub. Com. to replace Fawcett. It was decided that Marconi brand cigars be passed around at the banquet. An appropriation of \$2:00 was made for candy for Catel's steno. in recog. of serv. rendered the memb. Com. Mr. Baird said that the Radio Editor of the Journal had hinted that the Club and Journal combine to take over and operate Station WCAY from Kesselman (Frisccoll Co., and after a heated discussion, it was decided to consider the matter and look into all details before decideding definitely.

Adjourned.

MINUTES OF THE MILWAUKEE RADIO AMATEUR'S CLUB, INC.

November 29th 1923.

No Meeting in account of Legal Holiday (Thanksgiving).

December 5, 1923.

The meeting was called to order by President Howell, and after the minutes were read by the Secretary, the Business Manager, Mr. L.S. Hillegas-Baird read excerpts from a letter from Mr. Hebert, ARRL Treasurer and Field Representative. Mr. Hebert expressed his regret that he would not be able to be present at our annual dinner this year, and praised our club very highly as one of the finest in the country.

Mr. Crapo reported that in conjunction with State Manager Benn Ott, an ARRL State Traffic Meeting would be held under the auspices of the club on the afternoon of December 15th preceding the annual dinner.

M.E. Szukalski Jr. C.M. reported that he was contemplating writing RCA in regard to Ship QRM to BCL for which the Ham is blamed. He read the duties of a C.M., and asked that all spark interference be reported to him. Mr. Szukalski announced his intention of carrying out experiments to locate with a directional receiver, the source of the AC hum heard by most city stations. He asked for volunteers to assist him in this work. He announced that every Saturday and Sunday evening at 7:30 and 10:30 the official ARRL Broadcasts would be transmitted from station 9AAP. Applicants for operatorship of station 9AAP were asked for.

December 13, 1923

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB, INC.

The Meeting was called to order by Pres. Fowell, and the Secretary read the minutes of the previous meeting.

Business Mgr. Hillegas-Baird reported that he had been engaged in arrangements for the State Traffic meeting and Annual Club Dinner to be held Dec. 15th afternoon and evening.

The Publications Committee reported an article on the French Station which was known as the Zero Post, being an outlaw broadcasting transmitter.

The traffic committee brought before the members once more the change in interval between calls from "DE" to "U" for American stations, which was to take effect on Dec. 15th.

C.M. Szukalski read a letter from Matthews in which he again stressed quiet hour enforcement and Transatlantic Quiet observation. He mentioned the fact that he had sent questionnaires to all Milwaukee stations which he requested be filled out and returned to him as soon as possible. He also told something of the new QRS certificates to be given out and their requirements.

The Secretary reported applications for membership from Victor Sierpiński for regular; Gerald Austin, Jack Stoltenberg; Richard Loosen for Junior; and Chas. B. Holden, M.F. Wadleigh, and Fred. C. Brunke for associate. All were admitted.

The Treasurer reported \$53.35 in the Treasury.

Mr. K.E. Hassel, SZN, Research Engineer, Chicago Radio Laboratory, gave a very interesting and highly instructive talk on the Underlying Characteristics of Receiver Design. He spoke not of any particular hook-up, but of methods for getting maximum efficiency from any hookup, dwelling particularly on elimination of tuner losses. He gave some very good dope on Short wave receiving, Wave traps, and the use of low voltage detector tubes.

The meeting adjourned at 10:00. Seventy-two were present.

A short B.D. meeting was held to make final arrangements for the events of Dec. 15th.

MINUTES OF THE MILWAUKEE RADIO AMATEURS' CLUB INC.

December 20th 1923.

The meeting was called to order by Pres. Howell, and after the customary reading of the minutes, Business Manager Baird reported that the ARRL State Traffic Meeting which was held on December 15th and the Club's annual Dinner held the same day, were reported by him to ARRL headquarters in Hartford.

Chrm. Rose of the Publications Committee reported on the current issue of the Radio Service Bulletin, and commended the Government Letter Circular 92 regarding Standard Frequency tests from WWV to the members. He also called to the members attention the new edition of the works of Chas. F. Steinmetz recently gotten out by Mc Graw Hill & Co. and to the recent article on simplified Superheterodyne Receivers in the current Radio Broadcast.

Chrm. Doll of the Traffic Comm. reported that R.E.G. Matthews, Cent. Div. Mgr. had intimated that C.N.Crapo, SVD would succeed Ben Ott as Asst. Div. Mgr. for Wis., and that M.H.Doll, 9ALR would succeed SVD as District Mgr. for Dist. No. 1. Wis.

City Mgr. M.F.Szukalski Jr., announced that he had reported stations 9EIE and 9EHR to the Radio Inspector for violation of regulations. He also mentioned having written to the owners of several stations regarding minor offenses such as overlapping into the quiet period. He read another letter from F.B.Schaeffl regarding the Quiet period for Transatlantic Reception.

Chrm. Howell of Pro. Comm. reported that 9CJO would speak on 100meter transmission at a future meeting. He also read a letter from Fred Marco of Chi. Thanking the club for the fine time he had at our activities on Dec. 15th.

Mr. Elauert gave his first report for the Technical Comm. in which he gave some practical data on his Synchronous Rectifier which actually "perks".

Mr. Quentin, 9CCI, also of this comm. then gave the results of a series of experiments on wave traps and their use for preventing interference.

Mr. D.J.Angus, an officer of the Indianapolis Radio Club gave in a very interesting way the problems that were offered

the Indianapolis club, and their methods of combating the interference bogey, the animosity of BCL's and Hams, club finances thru apparatus auctions, and the project of installing a small broadcasting station for announcing the meetings of the club, and giving publicity to its aims. He then dealt with the problem of co-operating with the railroads in maintaining emergency dispatching service in case of the failure of wire telegraph and telephone service.

The meeting then adjourned to give place to a meeting of the Board of Directors.

Members voted in were:

MINUTES OF THE BOARD OF DIRECTORS MEETING.
December 20, 1923.

The meeting was called to order, and the position of chairman of the Technical Committee was declared vacant since M.H.Doll, newly appointed district superintendent had taken chairmanship of the traffic committee. Mr. Metcalf was suggested for this position, and the board went on record as advocating his appointment.

The financial situation, made acute by certain unexpected expenses occasioned by the club's dinner was discussed, and Mr. Ruppenthal, and Mr. Howell were made a committee to consummate an agreement with the hotel management.

The matter of maintaining a GRM bureau for solving the BCL's problems was taken up, and after a stormy discussion was laid on the table for investigation.

An appropriation to cover six photographs of the club dinner was granted Mr. Baird for publicity work.

The meeting then adjourned.